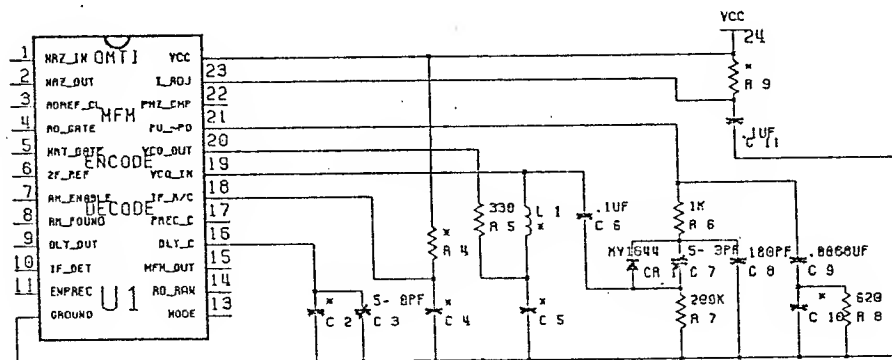


Job: V80.Z050.JEFC.\$SDM.SHEET1

Enqueued: 2/10/1986 8:03 am (pdt)
 Printed: 2/10/1986 8:04 am (pdt)
 Magnification: 0.617079 (auto-scaled)

REVISION			
LTR	DESCRIPTION	DATE	APPROVAL
A	RELEASE	3/17/86	GWALTZ
B	REV PER DCO 5019	1/17/87	B.H.D.
C	REV PER DCO 5345	10/13/87	Rma



NOTES: UNLESS OTHERWISE SPECIFIED:

- 1 THIS NOTE APPLIES TO DASH 0002 ASSEMBLIES ONLY. REFERENCE DOCUMENT 3001563 TO DETERMINE APPROPRIATE RESISTOR VALUE TO BE USED WITH 20507 LOT AT LOCATION R4. RESISTOR VALUES ARE 4.7K, 5.1K (NOM), AND 5.6K.

SDM-M032
L1 10uH
C5 330pF
R9 12k
R4 4.3k
C4 68pF
C2 27pF
C10 220pF
U1 020507

SDM-M050
L1 3.9uH
C5 560pF
R9 12k
R4 5.1k
C4 33pF
C2 15pF
C10 150pF
U1 020507

SDM-A050
L1 3.9uH
C5 560pF
R9 12k
R4 -
C4 -
C2 15pF
C10 150pF
U1 020527

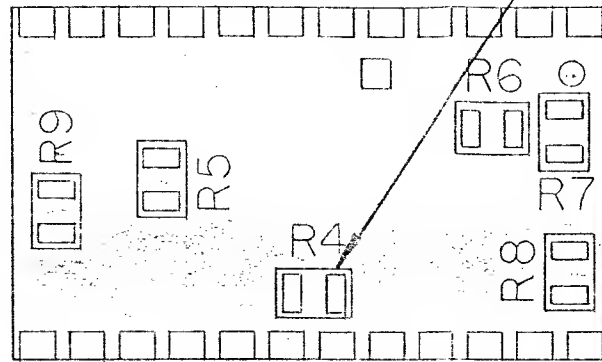
SDM-A075
L1 4.8uH
C5 390pF
R9 4.3K
R4 -
C4 -
C2 -
C10 68pF
U1 020527C

REF. PRINT

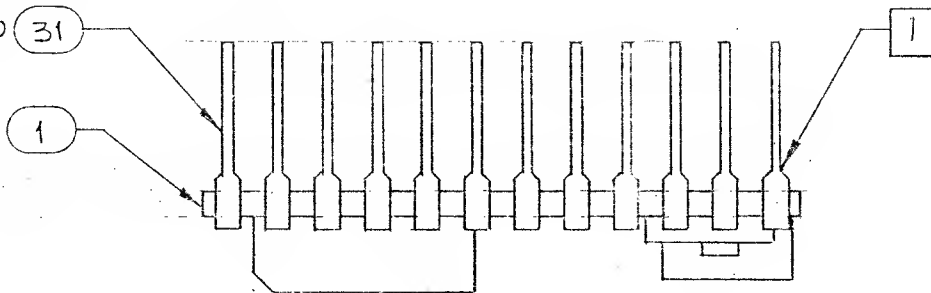
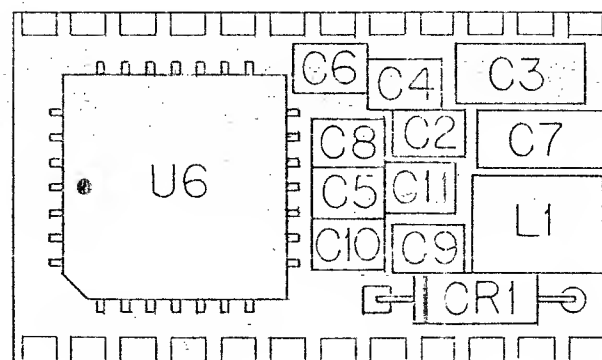
SERIAL DATA MODULE
 Part #0005221C
 Drawn: JC 09/23/85
 Page: 1 of 1

OMTI

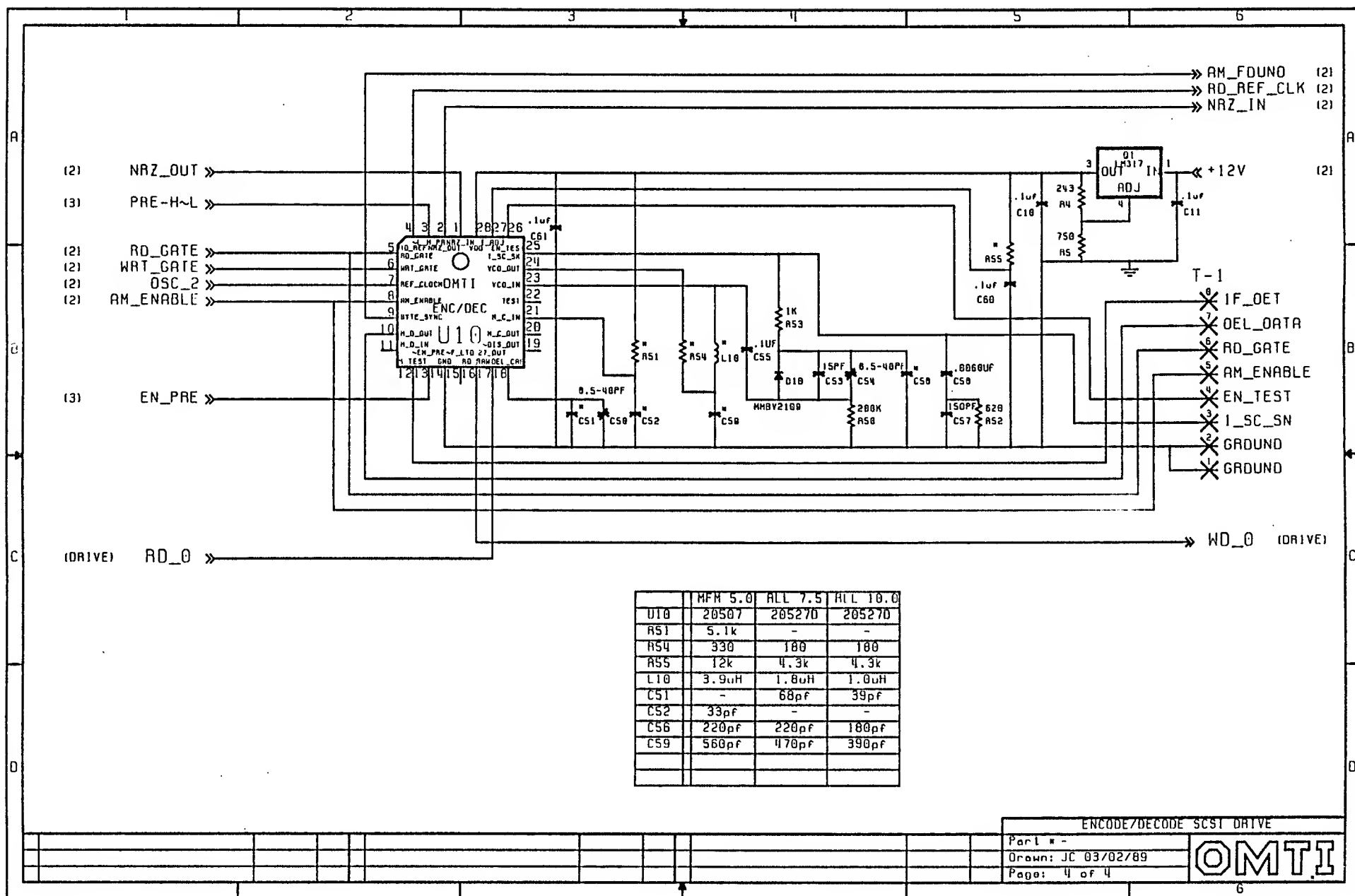
CIRCUIT SIDE



24 REQD

COMPONENT
SIDE

0004	0003	0002	0001
QUANTITY PER DASH NUMBER			
0004	SDM-R075		T
0003	SDM-MFM		T
0002	SDM-M050		T
DASH NUMBER	PRODUCT	NEXT	
APPLICATION			



FROM : DAN OPRICA

DATE: 01-09-89

TO : DISTRIBUTION

RE : DATA SEPARATOR CONFIGURATION USING 20527C OR 20527D.

The 20527 Encoder/Decoder/Data Separator has been released in the D version last year and becomes available for SMS use. The Phase Lock Loop and all Data Separator pertaining components configuration is the same for the C and for the D part. There is a difference in the DATA DELAY adjustment, which should be 37nS for the D part (At 7.5 Mbaud data rate). For as long as the D part performance regarding data window margin is practically the same for VDD = 5V as for VDD = 6V power supply, the necessity of powering the Data Separator at VDD = 6V does not exist any longer. This has created controversy in the past use of 20527C with some customers. Consequently, my recommendation is that introduction of the D part in the SMS products must coincide with introduction of VDD = 5V. This affects the resistor divider of the on board LM317 regulator, which should be 243ohm/750ohm instead of 243ohm/909ohm.

The following tables synthesize the component values and the adjustments used with all the three 20527 parts at 7.5 Mbaud data rate, in the "standard" component labeling, started with 3127A product.

COMPONENT VALUES

U10	P20527C	9001488-0100	P20527	9001488-0001
or	P20527D	9001488-1100		
R50	200kohm	9001432-2005	same	
R52	620ohm	9001432-6200	same	
R53	1kohm	9001432-1003	same	
*R54	330ohm	9001432-3300	same	
R55	4.3kohm	9001432-4303	7.5kohm	9001432-7503
L10	1.8uH	9001369-1806	same	
C50	8.5-40pF	9001657-0040	4.5-20pF	9001657-0020
C51	68pF	9001364-6801	10pF	9001364-1001
C53	15pF	9001364-1501	same	
C54	8.5-40pF	9001657-0040	same	
C55	0.1uF	9001433-1005	same	
C56	220pF	9001364-2202	180pF	9001364-1802
C57	150pF	9001364-1502	same	
C58	6.8nF	9001430-6803	same	
C59	470pF	9001364-4702	390pF	9001364-3902
C60	0.1uF	9001433-1005	same	

*R54 : I recommend R54 = 180ohm (9001432-1802) to be used with 20527D part, instead of 330ohm.